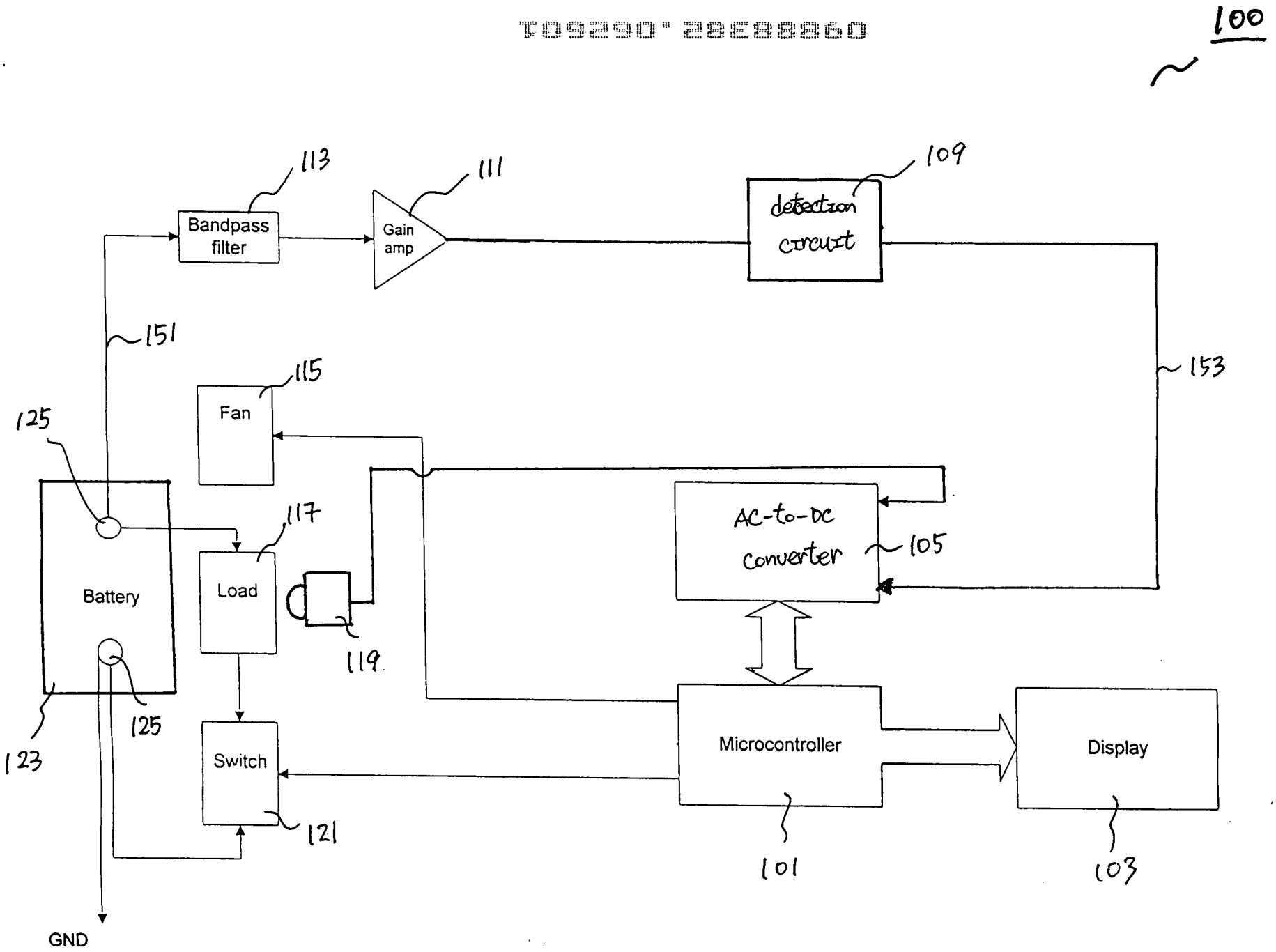

FIG. 1

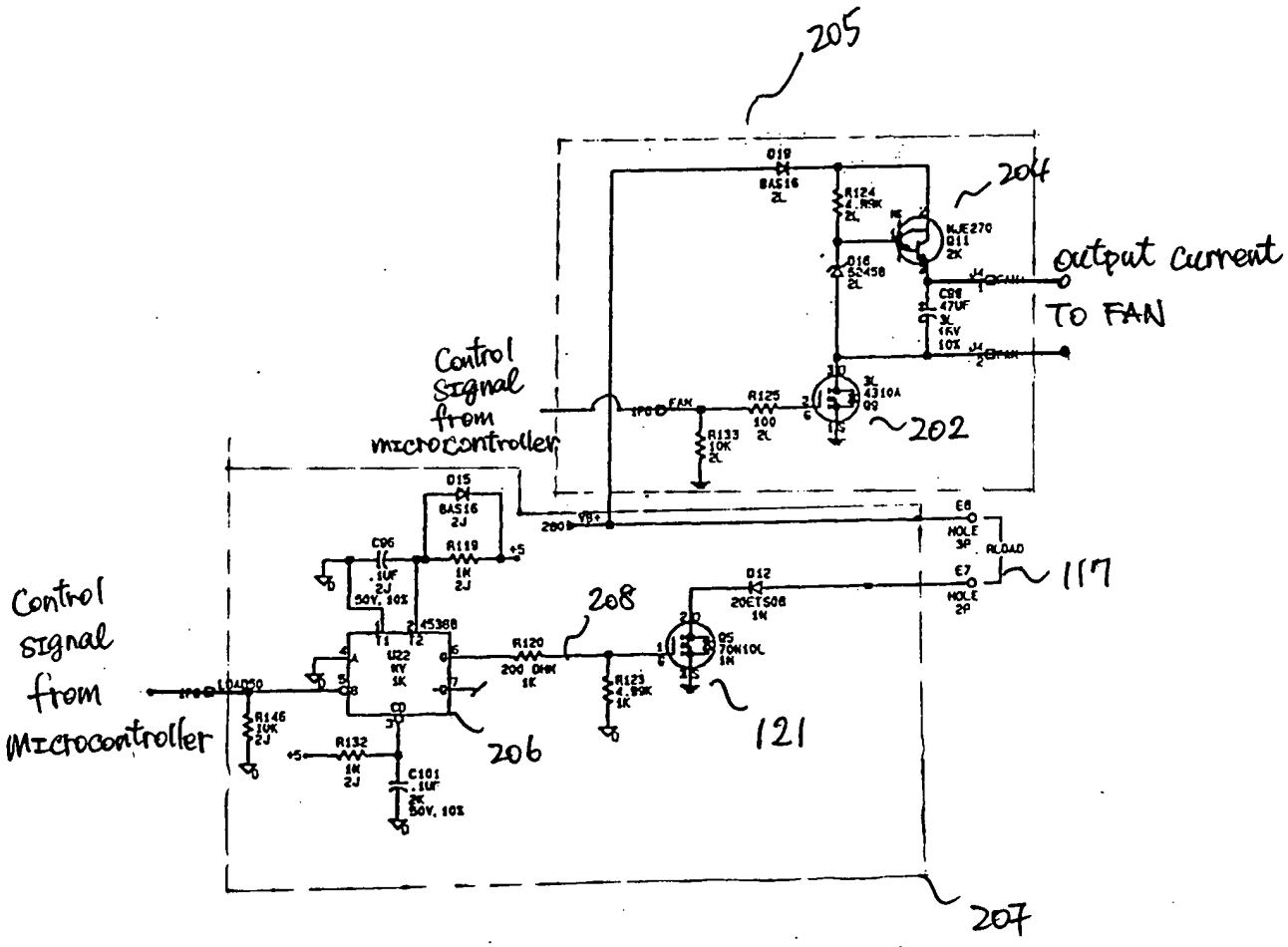
205
204
output current
TO FAN
Control
Signal
from
microcontroller
202
208
206
121
207
117
Control
signal
from
Microcontroller

Figure 2

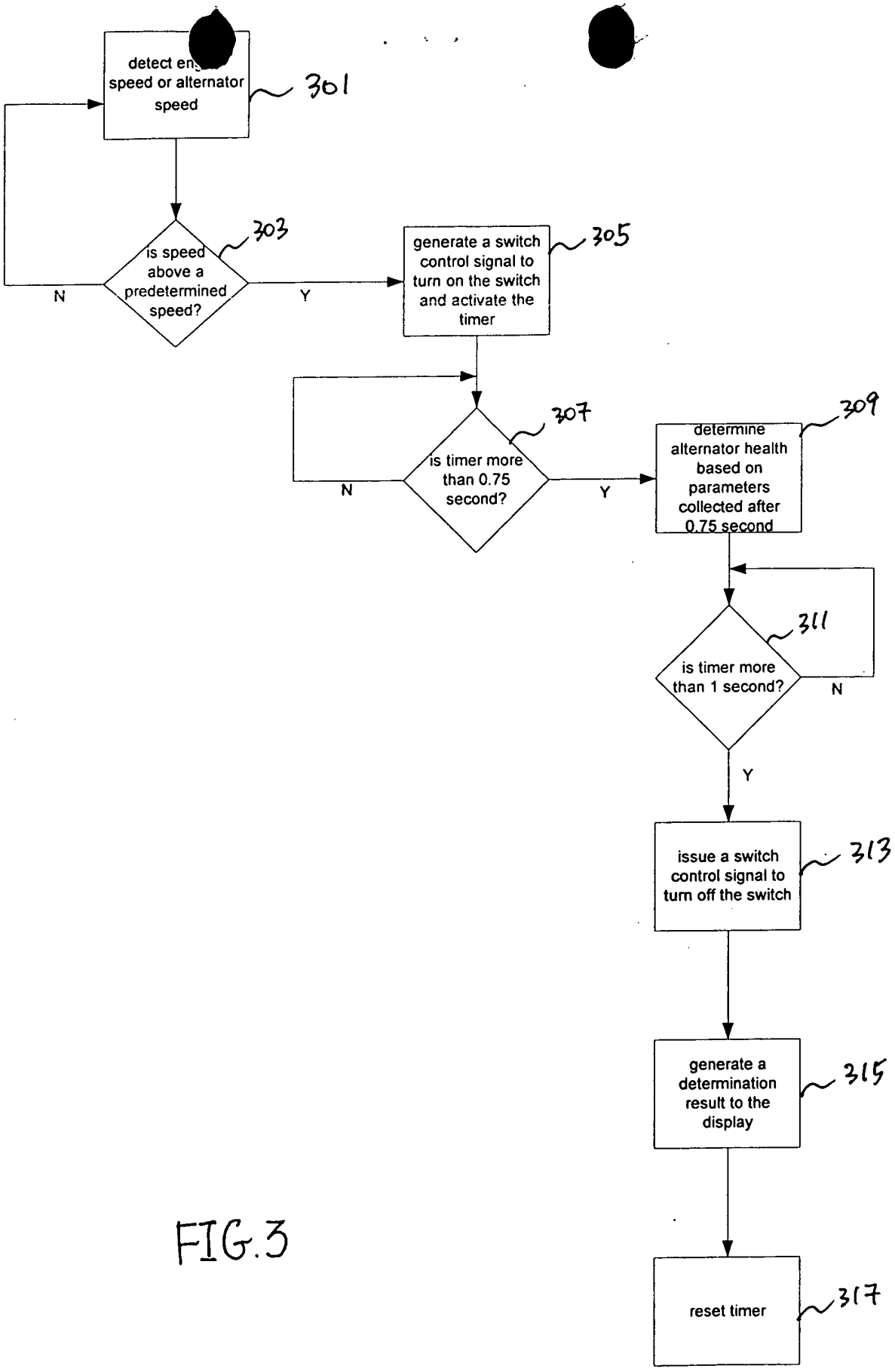
detect engine speed or alternator speed
301
is speed above a predetermined speed?
303
N
Y
generate a switch control signal to turn on the switch and activate the timer
305
is timer more than 0.75 second?
307
N
Y
determine alternator health based on parameters collected after 0.75 second
309
is timer more than 1 second?
311
N
Y
issue a switch control signal to turn off the switch
313
generate a determination result to the display
315
reset timer
317

FIG.3

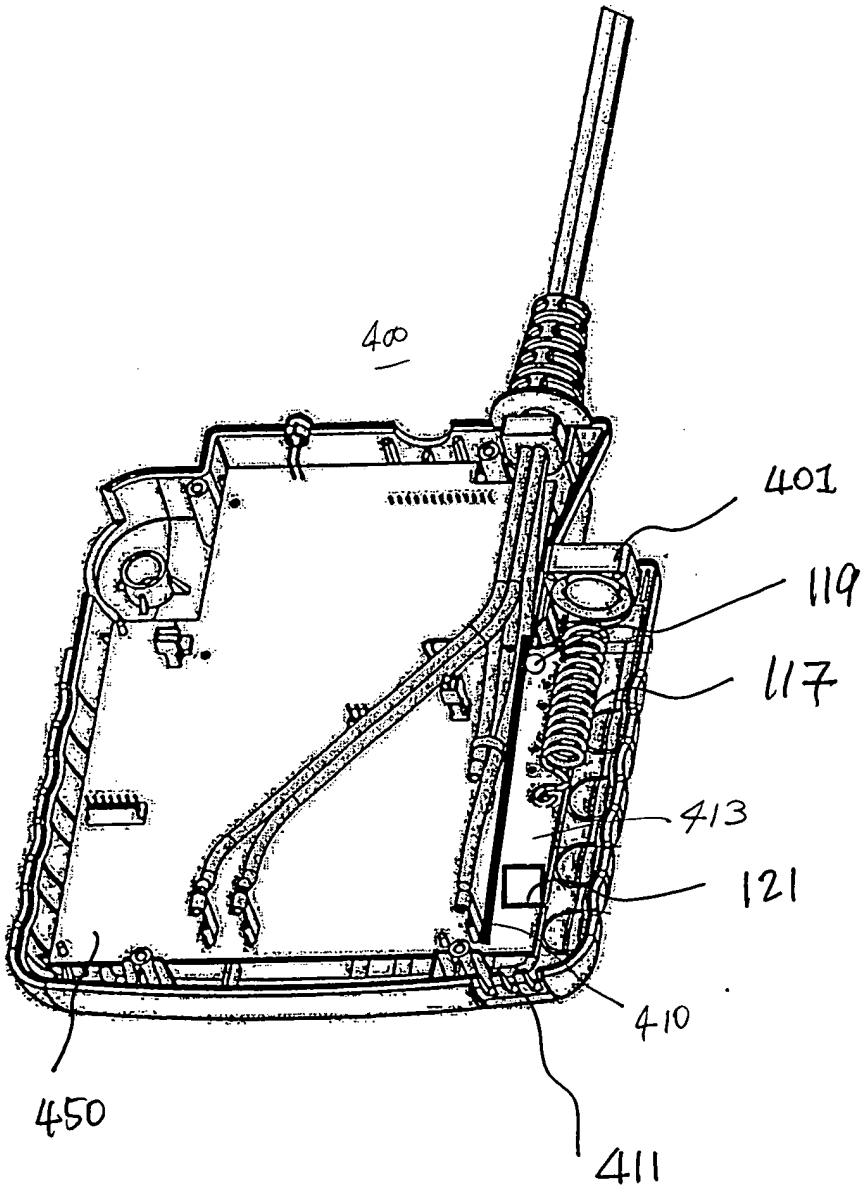

FIG. 4